

WEST**End of Result Set** [Generate Collection](#) [Print](#)

LS: Entry 3 of 3

File: DWPI

Aug 15, 2002

DERWENT-ACC-NO: 2003-016318

DERWENT-WEEK: 200301

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: XML document processing method for printer, involves processing document and page layout data structure to determine formatting properties, including page divisions, for content in document

INVENTOR: GEBERT, S M; GREENWOOD, D G ; HOHENSEE, R H ; LEWIS, H R ; PALMER, D R ; ROBERTS, A R ; STONE, D E

PATENT-ASSIGNEE:

ASSIGNEE	CODE
INT BUSINESS MACHINES CORP	IBMC

PRIORITY-DATA: 2001US-0782850 (February 14, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20020111963 A1	August 15, 2002		010	G06F015/00

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
US20020111963A1	February 14, 2001	2001US-0782850	

INT-CL (IPC): G06 F 15/00; G06 F 17/00; G06 F 17/21; G06 F 17/24

ABSTRACTED-PUB-NO: US20020111963A

BASIC-ABSTRACT:

NOVELTY - The received XML document (16) and a page layout data structure are processed to determine formatting properties, including page divisions, for the content in the document. Multiple page objects are generated so that each page object has document content and formatting properties for one page. The page objects are transmitted to a rasterizer to transform into renderable information being generated by printer (8).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) XML document processing system;
- (2) and Article of manufacture for processing XML document.

USE - For processing XML source document containing instances of data object such as print job, newspaper article, Internet web page, book in a structural document format expressed in presentation languages such as XML, extensible style sheet language formatting object (XSL-FO), mixed object document content architecture (MO:DCA), for rendering on printer and also applicable for processing documents written in DHTML, cascading style sheet, page description language such as

postscript, portable document format (PDF), and other SGML languages.

ADVANTAGE - By preprocessing the XML document prior to rendering at the printer, the printer is relieved from processing burdens.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the XML document processing system.

Printer 8

XML document 16

CHOSEN-DRAWING: Dwg.1/3

TITLE-TERMS: DOCUMENT PROCESS METHOD PRINT PROCESS DOCUMENT PAGE LAYOUT DATA STRUCTURE DETERMINE FORMAT PROPERTIES PAGE DIVIDE CONTENT DOCUMENT

DERWENT-CLASS: T01 T04

EPI-CODES: T01-C05A1; T01-J11; T01-J11C1; T01-S03; T04-G10E;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2003-012238